

Agentic AI In Healthcare Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Ready-to-Deploy Agents, Multi Agent Systems), By Application (Medical Imaging, Personalized Treatment & Drug Discovery, Electronic Health Records (EHR), Remote Patient Care, Genomic Data Analysis, Chronic Disease Management, Others), By Region and Competition, 2020-2030F

<https://marketpublishers.com/r/AB0E26D84AB1EN.html>

Date: April 2025

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: AB0E26D84AB1EN

Abstracts

Global Agentic AI in healthcare market was valued at USD 176.21 million in 2024 and is projected to reach USD 262.68 million by 2030, growing at a compound annual growth rate (CAGR) of 7.08% during the forecast period. This market is witnessing robust growth, driven by the rising demand for advanced technologies that enhance healthcare delivery, improve patient outcomes, and boost operational efficiency.

Agentic AI—an advanced subset of artificial intelligence capable of autonomous decision-making and interaction—is transforming healthcare systems globally. By harnessing data-driven insights and sophisticated algorithms, Agentic AI is revolutionizing key aspects of healthcare, including diagnostics, treatment planning, administrative processes, and patient management.

A major catalyst behind this growth is the exponential increase in healthcare data. With the widespread adoption of electronic health records (EHRs), wearable health technologies, and medical imaging, healthcare providers are generating and managing vast volumes of data daily. Agentic AI enables real-time data analysis and interpretation, offering healthcare professionals actionable insights that support more

accurate and timely decision-making. For instance, AI-powered diagnostic tools can assess medical images such as X-rays and MRIs to identify anomalies or predict disease risks, thereby significantly enhancing diagnostic accuracy.

Key Market Drivers

Expansion of the Healthcare Sector

The rapid expansion of the global healthcare sector is a primary driver for the Agentic AI market. As healthcare systems continue to evolve, there is a heightened demand for innovative solutions that enhance efficiency, reduce operational costs, and improve clinical outcomes. Agentic AI systems—designed to perform specific tasks autonomously—are being increasingly integrated into healthcare workflows to address these needs.

Another significant factor accelerating adoption is the growing complexity of healthcare delivery, compounded by shifting global demographics. By 2050, approximately 80% of the elderly population will reside in low- and middle-income countries. The pace of population aging is unprecedented: in 2020, the number of individuals aged 60 and above surpassed that of children under five. Between 2015 and 2050, the share of the global population aged 60+ is projected to rise from 12% to 22%. As patient populations expand and age, healthcare providers face increasing pressure to deliver high-quality care while managing costs and maintaining operational efficiency.

Key Market Challenges

High Costs of Development and Implementation

Despite its transformative potential, the adoption of Agentic AI in healthcare faces a significant challenge in terms of high development and implementation costs. The financial burden associated with the research, development, deployment, and ongoing maintenance of Agentic AI technologies presents a major obstacle for many healthcare institutions and technology vendors.

Developing robust Agentic AI systems requires substantial upfront investment in data acquisition, algorithm development, and system integration. These solutions must be exceptionally accurate and dependable, given the high stakes associated with patient care. The complexity and rigor of the research and development process often necessitate large-scale investments and extended development timelines, making the

path to commercialization challenging.

Key Market Trends

Growth in Robotic Surgery and AI-Driven Procedures

One of the most prominent trends shaping the Agentic AI in healthcare market is the increasing adoption of robotic surgery and AI-assisted medical procedures.

Technological advancements are rapidly redefining clinical and surgical practices, with robotic systems and AI technologies delivering significant gains in precision, efficiency, and patient outcomes.

Robotic surgery, known for its ability to enable minimally invasive and highly precise procedures, is gaining widespread acceptance across multiple medical specialties, including cardiology, orthopedics, neurology, and general surgery. Globally, over 76,000 surgeons have been trained to use da Vinci systems, with more than 14 million procedures performed using this technology. These systems are authorized for a wide range of surgical applications.

When enhanced with AI capabilities, robotic platforms can analyze patient data in real time, support clinical decision-making, and assist surgeons in executing complex procedures. AI-driven systems offer predictive analytics, risk assessments, and customized surgical strategies based on each patient's unique medical profile, significantly optimizing surgical outcomes.

Key Market Players

NVIDIA Corporation

Oracle Corporation

GE HealthCare Technologies Inc.

Thoughtful Automation Inc.

Hippocratic AI Inc.

Cognigy GmbH

Amelia US LLC

Beam AI Inc.

Mindsprint Pte. Ltd.

Hyro AI Inc.

Report Scope

In this report, the Global Agentic AI In Healthcare Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Agentic AI In Healthcare Market, By Product:

Ready-to-Deploy Agents

Multi Agent Systems

Agentic AI In Healthcare Market, By Application:

Medical Imaging

Personalized Treatment & Drug Discovery

Electronic Health Records (EHR)

Remote Patient Care

Genomic Data Analysis

Chronic Disease Management

Others

Agentic AI In Healthcare Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Agentic AI In Healthcare Market.

Available Customizations:

Global Agentic AI In Healthcare Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. IMPACT OF COVID-19 ON GLOBAL AGENTIC AI IN HEALTHCARE MARKET

5. GLOBAL AGENTIC AI IN HEALTHCARE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product (Ready-to-Deploy Agents, Multi Agent Systems)
 - 5.2.2. By Application (Medical Imaging, Personalized Treatment & Drug Discovery, Electronic Health Records (EHR), Remote Patient Care, Genomic Data Analysis, Chronic Disease Management, Others)

- 5.2.3. By Region
- 5.2.4. By Company (2024)
- 5.3. Market Map

6. NORTH AMERICA AGENTIC AI IN HEALTHCARE MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Product
 - 6.2.2. By Application
 - 6.2.3. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Agentic AI In Healthcare Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Product
 - 6.3.1.2.2. By Application
 - 6.3.2. Mexico Agentic AI In Healthcare Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Product
 - 6.3.2.2.2. By Application
 - 6.3.3. Canada Agentic AI In Healthcare Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Product
 - 6.3.3.2.2. By Application

7. EUROPE AGENTIC AI IN HEALTHCARE MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Product
 - 7.2.2. By Application

7.2.3. By Country

7.3. Europe: Country Analysis

7.3.1. France Agentic AI In Healthcare Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Product

7.3.1.2.2. By Application

7.3.2. Germany Agentic AI In Healthcare Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Product

7.3.2.2.2. By Application

7.3.3. United Kingdom Agentic AI In Healthcare Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Product

7.3.3.2.2. By Application

7.3.4. Italy Agentic AI In Healthcare Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Product

7.3.4.2.2. By Application

7.3.5. Spain Agentic AI In Healthcare Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Product

7.3.5.2.2. By Application

8. ASIA PACIFIC AGENTIC AI IN HEALTHCARE MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Product

8.2.2. By Application

8.2.3. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China Agentic AI In Healthcare Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Product

8.3.1.2.2. By Application

8.3.2. India Agentic AI In Healthcare Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Product

8.3.2.2.2. By Application

8.3.3. South Korea Agentic AI In Healthcare Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Product

8.3.3.2.2. By Application

8.3.4. Japan Agentic AI In Healthcare Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Product

8.3.4.2.2. By Application

8.3.5. Australia Agentic AI In Healthcare Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Product

8.3.5.2.2. By Application

9. SOUTH AMERICA AGENTIC AI IN HEALTHCARE MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

- 9.2.1. By Product
- 9.2.2. By Application
- 9.2.3. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Agentic AI In Healthcare Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Product
 - 9.3.1.2.2. By Application
 - 9.3.2. Argentina Agentic AI In Healthcare Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Product
 - 9.3.2.2.2. By Application
 - 9.3.3. Colombia Agentic AI In Healthcare Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Product
 - 9.3.3.2.2. By Application

10. MIDDLE EAST AND AFRICA AGENTIC AI IN HEALTHCARE MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Product
 - 10.2.2. By Application
 - 10.2.3. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Agentic AI In Healthcare Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Product
 - 10.3.1.2.2. By Application

10.3.2. Saudi Arabia Agentic AI In Healthcare Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Product

10.3.2.2.2. By Application

10.3.3. UAE Agentic AI In Healthcare Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Product

10.3.3.2.2. By Application

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)

12.3. Recent Developments

13. GLOBAL AGENTIC AI IN HEALTHCARE MARKET: SWOT ANALYSIS

14. PORTERS FIVE FORCES ANALYSIS

14.1. Competition in the Industry

14.2. Potential of New Entrants

14.3. Power of Suppliers

14.4. Power of Customers

14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

15.1. NVIDIA Corporation

15.1.1. Business Overview

15.1.2. Company Snapshot

- 15.1.3. Products & Services
- 15.1.4. Financials (As Reported)
- 15.1.5. Recent Developments
- 15.1.6. Key Personnel Details
- 15.1.7. SWOT Analysis
- 15.2. Oracle Corporation
- 15.3. GE HealthCare Technologies Inc.
- 15.4. Thoughtful Automation Inc.
- 15.5. Hippocratic AI Inc.
- 15.6. Cognigy GmbH
- 15.7. Amelia US LLC
- 15.8. Beam AI Inc.
- 15.9. Mindsprint Pte. Ltd.
- 15.10. Hyro AI Inc.

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

I would like to order

Product name: Agentic AI In Healthcare Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Ready-to-Deploy Agents, Multi Agent Systems), By Application (Medical Imaging, Personalized Treatment & Drug Discovery, Electronic Health Records (EHR), Remote Patient Care, Genomic Data Analysis, Chronic Disease Management, Others), By Region and Competition, 2020-2030F

Product link: <https://marketpublishers.com/r/AB0E26D84AB1EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AB0E26D84AB1EN.html>